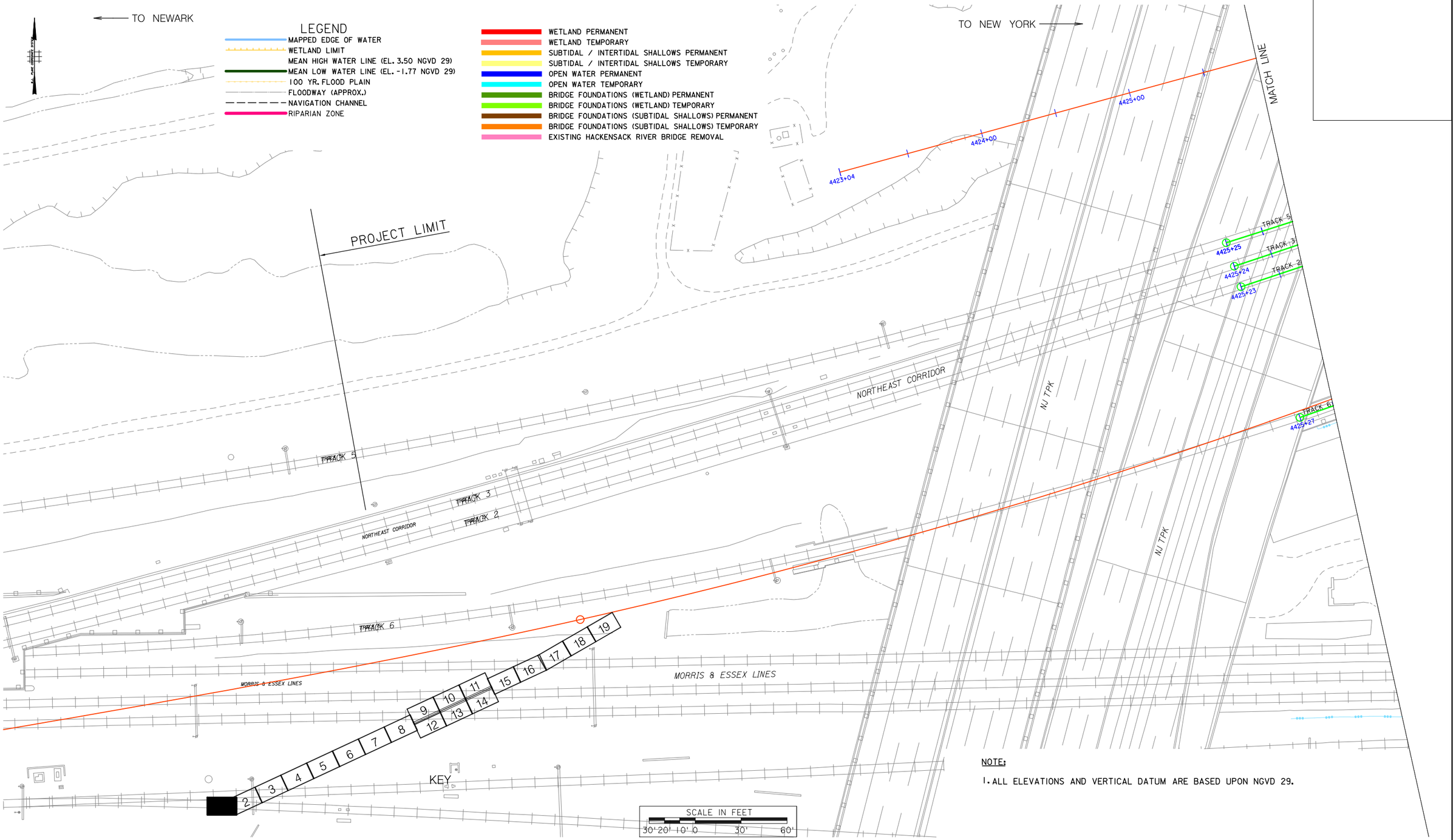


NOTE:

1. ALL ELEVATIONS AND VERTICAL DATUM ARE BASED UPON NGVD 29.

No.	DATE:	REVISIONS	DESIGN	CHKD	APPRVD

NJ TRANSIT

AMTRAK

Portal Partners — NJ TRANSIT — AMTRAK — Gateway to Success

JACOBS™
299 Madison Ave, Morristown, NJ 07962

DESIGNED: RDS
DRAWN: PRH
CHECKED: FG
APPROVED: RDS

Jacobs Engineering Group, Inc.
Certificate No. 24GA27990200

RICHARD D. SIRABIAN
PROFESSIONAL ENGINEER
NJ LIC. No. 24GE03481000

PORTAL BRIDGE CAPACITY ENHANCEMENT

ENVIRONMENTAL IMPACTS SHEET 1

Amtrak FILE No: -
Amtrak Work Elem. No: -
ISSUE: 100% PE
DATE: JANUARY 2020

CONTRACT No. -
DWG No. ENVCVL-1
SHEET No. 1 OF 23

FILENAME: c:\pwworking\gfpw01\peter.hoog@jacobs.com\d104272\ENVCVL-1.dgn
DATE: 1/17/2020 9:46:02 AM
USER: phoog

Cedar Creek Marsh North Impacts		
	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	0.000	0.652
Wetland	0.038	0.257
Open Water	0.000	0.000
Bridge Foundation Subtidal Shallows	0.000	0.000
Bridge Foundation Wetlands	0.000	0.000
Riparian	0.000	0.000
Hackensack Bridge Removal	0.000	0.000

CEDAR CREEK MARSH – NORTH

TO NEWARK

TO NEW YORK

MATCH LINE

MATCH LINE

NJ TPK

EMBANKMENT

WETLAND LIMIT

LIMIT OF 100-YEAR FLOOD(EL.10')

TRACK 5

TRACK 3

TRACK 2

TRACK 6

4426+00 4427+00 4428+00 4429+00 4430+00 4431+00 4432+00 4433+00 4434+00

Cedar Creek Marsh South Impacts		
	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	0.000	0.000
Wetland	0.005	0.005
Open Water	0.000	0.000
Bridge Foundation Subtidal Shallows	0.000	0.000
Bridge Foundation Wetlands	0.000	0.000
Riparian	0.000	0.000
Hackensack Bridge Removal	0.000	0.000

CEDAR CREEK MARSH – SOUTH

EXISTING ACCESS ROAD

WETLAND LIMIT

SUB 41

LEGEND

- MAPPED EDGE OF WATER
- WETLAND LIMIT
- MEAN HIGH WATER LINE (EL. 3.50 NGVD 29)
- MEAN LOW WATER LINE (EL. -1.77 NGVD 29)
- 100 YR. FLOOD PLAIN
- FLOODWAY (APPROX.)
- NAVIGATION CHANNEL
- RIPARIAN ZONE
- WETLAND PERMANENT
- WETLAND TEMPORARY
- SUBTIDAL / INTERTIDAL SHALLOWS PERMANENT
- SUBTIDAL / INTERTIDAL SHALLOWS TEMPORARY
- OPEN WATER PERMANENT
- OPEN WATER TEMPORARY
- BRIDGE FOUNDATIONS (WETLAND) PERMANENT
- BRIDGE FOUNDATIONS (WETLAND) TEMPORARY
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) PERMANENT
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) TEMPORARY
- EXISTING HACKENSACK RIVER BRIDGE REMOVAL

KEY: 7 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

SCALE IN FEET
30' 20' 10' 0 30' 60'

No.	DATE:	REVISIONS	DESIGN	CHKD	APPRVD

NJ TRANSIT

AMTRAK

Portal Partners NJ TRANSIT AMTRAK Gateway to Success

JACOBS™
299 Madison Ave, Morristown, NJ 07962

DESIGNED: RDS
DRAWN: PRH
CHECKED: FG
APPROVED: RDS

Jacobs Engineering Group, Inc.
Certificate No. 24GA27990200

RICHARD D. SIRABIAN
PROFESSIONAL ENGINEER
NJ LIC. No. 24GE03481000

PORTAL BRIDGE
CAPACITY ENHANCEMENT

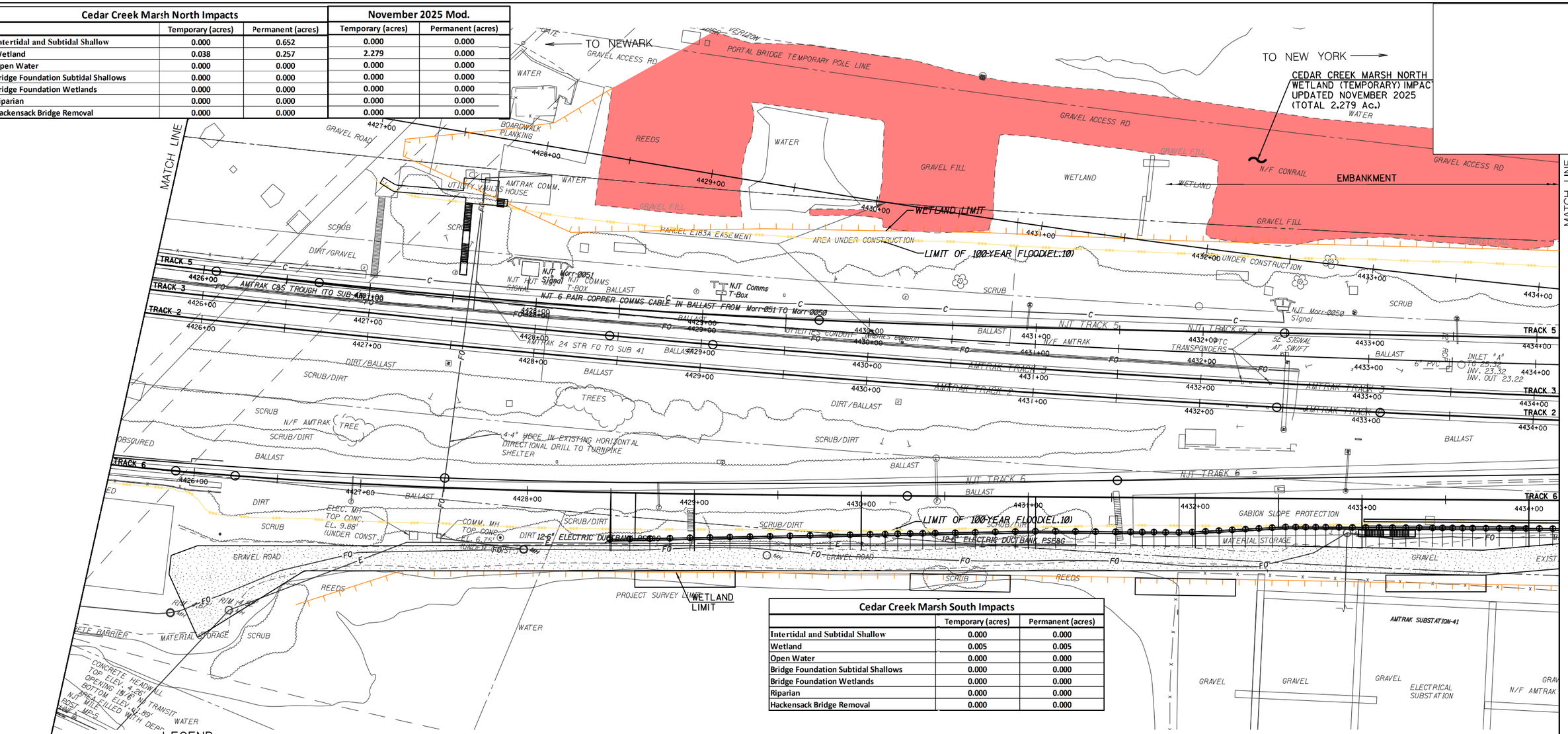
ENVIRONMENTAL IMPACTS
SHEET 2
CEDAR CREEK MARSH
- NORTH & SOUTH

Amtrak FILE No: -
Amtrak Work Elem. No: -
ISSUE: 100% PE
DATE: JANUARY 2020

CONTRACT No. -
DWG No. ENVCVL-2
SHEET No. 2 OF 23

FILENAME: c:\pwworking\gfow01\peter.noone@jacobs.com\d1049272\ENVCVL-2.dgn
DATE: 1/17/2020 9:47:04 AM
USER: pnoone

Cedar Creek Marsh North Impacts			November 2025 Mod.	
	Temporary (acres)	Permanent (acres)	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	0.000	0.652	0.000	0.000
Wetland	0.038	0.257	2.279	0.000
Open Water	0.000	0.000	0.000	0.000
Bridge Foundation Subtidal Shallows	0.000	0.000	0.000	0.000
Bridge Foundation Wetlands	0.000	0.000	0.000	0.000
Riparian	0.000	0.000	0.000	0.000
Hackensack Bridge Removal	0.000	0.000	0.000	0.000

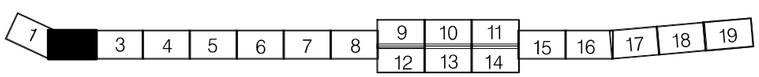


Cedar Creek Marsh South Impacts		
	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	0.000	0.000
Wetland	0.005	0.005
Open Water	0.000	0.000
Bridge Foundation Subtidal Shallows	0.000	0.000
Bridge Foundation Wetlands	0.000	0.000
Riparian	0.000	0.000
Hackensack Bridge Removal	0.000	0.000

LEGEND

- WETLAND LIMIT
- MEAN HIGH WATER LINE (EL. 3.50 NGVD 29)
- MEAN LOW WATER LINE (EL. -1.77 NGVD 29)
- 100 YR. FLOOD PLAIN
- FLOODWAY (APPROX.)
- NAVIGATION CHANNEL
- RIPARIAN ZONE
- WETLAND PERMANENT
- WETLAND TEMPORARY
- SUBTIDAL / INTERTIDAL SHALLOWS PERMANENT
- SUBTIDAL / INTERTIDAL SHALLOWS TEMPORARY
- OPEN WATER PERMANENT
- OPEN WATER TEMPORARY
- BRIDGE FOUNDATIONS (WETLAND) PERMANENT
- BRIDGE FOUNDATIONS (WETLAND) TEMPORARY
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) PERMANENT
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) TEMPORARY
- EXISTING HACKENSACK RIVER BRIDGE REMOVAL

SCALE IN FEET
30' 20' 10' 0 30' 60'



KEY

NOVEMBER 2025 MODIFICATIONS

No.	DATE:	REVISIONS	DESIGN	CHKD	APPRVD

DESIGNED:
DRAWN:
CHECKED:
APPROVED:

Jacobs Engineering Group, Inc.
Certificate No. 24GA27990200

RICHARD D. SIRABIAN
PROFESSIONAL ENGINEER
NJ LIC. No. 24GE03481000

PORTAL BRIDGE
CAPACITY ENHANCEMENT

ENVIRONMENTAL IMPACTS
SHEET 2

CEDAR CREEK MARSH
- NORTH & SOUTH

Amtrak FILE No: -
Amtrak Work Elem. No: -
ISSUE: 100% PE
DATE: JANUARY 2020

CONTRACT No. -
DWG No. ENVCVL-2
SHEET No. 2 OF 23

FILENAME: c:\pwworking\gfpw01\peter.hoog@jacobs.com\d189867\mm_ENVCVL-2.dgn
DATE: 11/25/2025 5:40:27 PM
USER: phoog

Cedar Creek Marsh North Impacts		
	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	0.000	0.652
Wetland	0.038	0.257
Open Water	0.000	0.000
Bridge Foundation Subtidal Shallows	0.000	0.000
Bridge Foundation Wetlands	0.000	0.000
Riparian	0.000	0.000
Hackensack Bridge Removal	0.000	0.000

MATCH LINE

← TO NEWARK

TO NE

MATCH LINE

CEDAR CREEK MARSH – N

WALLED SECTION

WETLAND LIMIT

WALL B

LIMIT OF 100-YEAR FLOOD(EL.10)

TRACK 5

TRACK 3

TRACK 2

TRACK 6

4435+00 4436+00 4437+00 4438+00 4439+00 4440+00 4441+00 4442+00 4443+00

LIMIT OF 100-YEAR FLOOD(EL.10)

EXISTING ACCESS ROAD

SUB 41

Cedar Creek Marsh South Impacts		
	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	0.000	0.000
Wetland	0.005	0.005
Open Water	0.000	0.000
Bridge Foundation Subtidal Shallows	0.000	0.000
Bridge Foundation Wetlands	0.000	0.000
Riparian	0.000	0.000
Hackensack Bridge Removal	0.000	0.000

CEDAR CREEK MARSH – SOUTH

LEGEND

- MAPPED EDGE OF WATER
- WETLAND LIMIT
- MEAN HIGH WATER LINE (EL. 3.50 NGVD 29)
- MEAN LOW WATER LINE (EL. -1.77 NGVD 29)
- 100 YR. FLOOD PLAIN
- FLOODWAY (APPROX.)
- NAVIGATION CHANNEL
- RIPARIAN ZONE

- WETLAND PERMANENT
- WETLAND TEMPORARY
- SUBTIDAL / INTERTIDAL SHALLOWS PERMANENT
- SUBTIDAL / INTERTIDAL SHALLOWS TEMPORARY
- OPEN WATER PERMANENT
- OPEN WATER TEMPORARY
- BRIDGE FOUNDATIONS (WETLAND) PERMANENT
- BRIDGE FOUNDATIONS (WETLAND) TEMPORARY
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) PERMANENT
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) TEMPORARY
- EXISTING HACKENSACK RIVER BRIDGE REMOVAL

SCALE IN FEET
30' 20' 10' 0 30' 60'

KEY: 1 2 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

No.	DATE:	REVISIONS	DESIGN	CHKD	APPRVD

NJ TRANSIT / AMTRAK

Portal Partners — NJ TRANSIT / AMTRAK — Gateway to Success

JACOBS™
299 Madison Ave, Morristown, NJ 07962

DESIGNED: RDS
DRAWN: PRH
CHECKED: FG
APPROVED: RDS

Jacobs Engineering Group, Inc.
Certificate No. 24GA27990200

RICHARD D. SIRABIAN
PROFESSIONAL ENGINEER
NJ LIC. No. 24GE03481000

PORTAL BRIDGE
CAPACITY ENHANCEMENT

ENVIRONMENTAL IMPACTS
SHEET 3
CEDAR CREEK MARSH
- NORTH & SOUTH

Amtrak FILE No: -
Amtrak Work Elem. No: -
ISSUE: 100% PE
DATE: JANUARY 2020
CONTRACT No.
DWG No. ENVCVL-3
SHEET No. 3 OF 23

FILENAME: c:\pwworking\gfpw01\peter.hoag@jacobs.com\d1049272\ENVCVL-3.dgn
DATE: 1/17/2020 9:48:01 AM
USER: phoag

Cedar Creek Marsh North Impacts			November 2025 Mod.	
	Temporary (acres)	Permanent (acres)	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	0.000	0.652	0.000	0.000
Wetland	0.038	0.257	2.279	0.000
Open Water	0.000	0.000	0.000	0.000
Bridge Foundation Subtidal Shallows	0.000	0.000	0.000	0.000
Bridge Foundation Wetlands	0.000	0.000	0.000	0.000
Riparian	0.000	0.000	0.000	0.000
Hackensack Bridge Removal	0.000	0.000	0.000	0.000

MATCH LINE

TO NEWARK

TO NE

MATCH LINE

CEDAR CREEK MARSH NORTH
WETLAND (TEMPORARY) IMPACT
UPDATED NOVEMBER 2025
(TOTAL 2.279 Ac.)

WETLAND LIMIT

GRAVEL ACCESS RD

EDGE OF WATER/BOT BANK OF ROAD

WATER

FINAL PORTAL BRIDGE TEMPORARY POLE HOUSES VERIZON AMTRAK AND ZAYO FIBER

GRAVEL ACCESS ROAD

WALL B

LIMIT OF 100-YEAR FLOOD(EL.10)

EXISTING SHEET PILES

AREA UNDER CONSTRUCTION

N/F AMTRAK

SCRUB

BALLAST

TRACK 5

TRACK 3

TRACK 2

TRACK 6

AMTRAK TRACK 2

NJT TRACK 5

AMTRAK TRACK 3

NJT TRACK 6

LH No. 26.5

LH No. 20

6" CPP

DUCT BANK

EROSION

GABION SLOPE PROTECTION

FILL & DEBRIS

SCRUB/DIRT

DIRT/BALLAST

MATERIAL STORAGE

EXISTING ACCESS ROAD

BITUMINOUS

REEDS

Tree

N/F 42 MONMOUTH STREET LLC

PROJECT SURVEY LIMIT

WATER

GRAVEL

Cedar Creek Marsh South Impacts		
	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	0.000	0.000
Wetland	0.005	0.005
Open Water	0.000	0.000
Bridge Foundation Subtidal Shallows	0.000	0.000
Bridge Foundation Wetlands	0.000	0.000
Riparian	0.000	0.000
Hackensack Bridge Removal	0.000	0.000

LEGEND

- WETLAND LIMIT
- MEAN HIGH WATER LINE (EL. 3.50 NGVD 29)
- MEAN LOW WATER LINE (EL. -1.77 NGVD 29)
- 100 YR. FLOOD PLAIN
- FLOODWAY (APPROX.)
- NAVIGATION CHANNEL

- WETLAND PERMANENT
- WETLAND TEMPORARY
- SUBTIDAL / INTERTIDAL SHALLOWS PERMANENT
- SUBTIDAL / INTERTIDAL SHALLOWS TEMPORARY
- OPEN WATER PERMANENT
- OPEN WATER TEMPORARY
- BRIDGE FOUNDATIONS (WETLAND) PERMANENT
- BRIDGE FOUNDATIONS (WETLAND) TEMPORARY
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) PERMANENT
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) TEMPORARY
- EXISTING HACKENSACK RIVER BRIDGE REMOVAL

SCALE IN FEET
30' 20' 10' 0 30' 60'

KEY

1 2 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

NOVEMBER 2025 MODIFICATIONS

No.	DATE:	REVISIONS	DESIGN	CHKD	APPRVD

DESIGNED:
DRAWN:
CHECKED:
APPROVED:

Jacobs Engineering Group, Inc.
Certificate No. 24GA27990200

RICHARD D. SIRABIAN
PROFESSIONAL ENGINEER
NJ LIC. No. 24GE03481000

PORTAL BRIDGE
CAPACITY ENHANCEMENT

ENVIRONMENTAL IMPACTS
SHEET 3

CEDAR CREEK MARSH
- NORTH & SOUTH

Amtrak FILE No: -
Amtrak Work Elem. No: -
ISSUE: 100% PE
DATE: JANUARY 2020

CONTRACT No.
DWG No. ENVCVL-3
SHEET No. 3 OF 23

FILENAME: c:\pwworking\ygfpw01\peter.hoog@jacobs.com\d1898867\mm.ENVCVL-3.dgn
DATE: 11/25/2025 5:40:33 PM
USER: phoog

MATCH LINE

TO NEWARK

CEDAR CREEK MARSH – NORTH

Cedar Creek Marsh North Impacts		
	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	0.000	0.652
Wetland	0.038	0.257
Open Water	0.000	0.000
Bridge Foundation Subtidal Shallows	0.000	0.000
Bridge Foundation Wetlands	0.000	0.000
Riparian	0.000	0.000
Hackensack Bridge Removal	0.000	0.000

TO NE

MATCH LINE

WALLED SECTION

WALL B

EXTEND CULVERT

WETLAND LIMIT

TRACK 5

TRACK 3

TRACK 2

TRACK 6

LIMIT OF 100-YEAR FLOODPLAIN (EL. 10)

EXISTING WOOD STAIRWAY

℄ ARCH CULVERT UG7.19

EXISTING ACCESS ROAD

EXIST. TIMBER STRUCTURE OVER DITCH

CEDAR CREEK MARSH – SOUTH

LEGEND

- MAPPED EDGE OF WATER
- WETLAND LIMIT
- MEAN HIGH WATER LINE (EL. 3.50 NGVD 29)
- MEAN LOW WATER LINE (EL. -1.77 NGVD 29)
- 100 YR. FLOOD PLAIN
- FLOODWAY (APPROX.)
- NAVIGATION CHANNEL
- RIPARIAN ZONE
- WETLAND PERMANENT
- WETLAND TEMPORARY
- SUBTIDAL / INTERTIDAL SHALLOWS PERMANENT
- SUBTIDAL / INTERTIDAL SHALLOWS TEMPORARY
- OPEN WATER PERMANENT
- OPEN WATER TEMPORARY
- BRIDGE FOUNDATIONS (WETLAND) PERMANENT
- BRIDGE FOUNDATIONS (WETLAND) TEMPORARY
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) PERMANENT
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) TEMPORARY
- EXISTING HACKENSACK RIVER BRIDGE REMOVAL

KEY

1 2 3 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

SCALE IN FEET

30' 20' 10' 0 30' 60'

Cedar Creek Marsh South Impacts		
	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	0.000	0.000
Wetland	0.005	0.005
Open Water	0.000	0.000
Bridge Foundation Subtidal Shallows	0.000	0.000
Bridge Foundation Wetlands	0.000	0.000
Riparian	0.000	0.000
Hackensack Bridge Removal	0.000	0.000

FILENAME: c:\pwworking\gfw01\peter.noop@jacobs.com\d1049272\ENVCVL-4.dgn
DATE: 1/17/2020 9:48:35 AM
USER: phoop

No.	DATE:	REVISIONS	DESIGN	CHKD	APPRVD

NJ TRANSIT

AMTRAK

Portal Partners — NJ TRANSIT — AMTRAK — Gateway to Success

JACOBS™
299 Madison Ave, Morristown, NJ 07962

DESIGNED: RDS
DRAWN: PRH
CHECKED: FG
APPROVED: RDS

Jacobs Engineering Group, Inc.
Certificate No. 24GA27990200

RICHARD D. SIRABIAN
PROFESSIONAL ENGINEER
NJ LIC. No. 24GE03481000

PORTAL BRIDGE CAPACITY ENHANCEMENT

ENVIRONMENTAL IMPACTS
SHEET 4
CEDAR CREEK MARSH - NORTH & SOUTH

Amtrak FILE No: -
Amtrak Work Elem. No: -
ISSUE: 100% PE
DATE: JANUARY 2020

CONTRACT No.
DWG No. ENVCVL-4
SHEET No. 4 OF 23

Cedar Creek Marsh North Impacts			November 2025 Mod.	
	Temporary (acres)	Permanent (acres)	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	0.000	0.652	0.000	0.000
Wetland	0.038	0.257	2.279	0.000
Open Water	0.000	0.000	0.000	0.000
Bridge Foundation Subtidal Shallows	0.000	0.000	0.000	0.000
Bridge Foundation Wetlands	0.000	0.000	0.000	0.000
Riparian	0.000	0.000	0.000	0.000
Hackensack Bridge Removal	0.000	0.000	0.000	0.000

MATCH LINE

MATCH LINE

TO NEWARK

N/F TOWN OF KEARNY

WATER

WALLED SECTION

FINAL PORTAL BRIDGE
TEMPORARY POLE, HOUSES VERIZON
AMTRAK AND ZAYO FIBER

CEDAR CREEK MARSH NORTH
WETLAND (TEMPORARY) IMPACT
UPDATED NOVEMBER 2025
(TOTAL 2.279 Ac.)

WALL B

GRAVEL ACCESS RD

GRAVEL ACCESS ROAD

S 74°15'00" W 339.86' (REF#1)

EXISTING SHEET PILES

METAL PLATES

S 74°15'00" W (REF#1) 755.92' (C)

S 74°15'40" W (REF#2) 414.03' (C)

EXTEND CULVERT

UNC SHEET PILES

AREA UNDER CONSTRUCTION

1730' (TM)

WETLAND LIMIT

TRACK 5

TRACK 3

TRACK 2

TRACK 6

BALLAST

DIRT/BALLAST

SCRUB

SCRUB/DIRT

REEDS

N/F AMTRAK

N/F PSE&G

RH No. 20

RH No. 26.5

NJT TRACK 5

NJT TRACK 6

LIMIT OF 100-YEAR FLOOD(EL.10)

HEADWALL
TOP 9.55
TOP OF MARSH 6.25
INV. RCP -0.62
(TO TOP OF DEBRIS)

MATERIALS STORAGE

EXISTING ACCESS ROAD

BITUMINOUS

WOODS

BARRIERS

PROJECT SURVEY LIMIT

MH RIM 5.39'

MH RIM 4.65'

N44°45'15"E 1971.42' (REF #1 - TOTAL)

508.75' (TM)

155.91' (TM)

75.78' (TM)

75.79' (TM)

LEGEND

- WETLAND LIMIT
- MEAN HIGH WATER LINE (EL. 3.50 NGVD 29)
- MEAN LOW WATER LINE (EL. -1.77 NGVD 29)
- 100 YR. FLOOD PLAIN
- FLOODWAY (APPROX.)
- NAVIGATION CHANNEL
- RIPARIAN ZONE

- WETLAND PERMANENT
- WETLAND TEMPORARY
- SUBTIDAL / INTERTIDAL SHALLOWS PERMANENT
- SUBTIDAL / INTERTIDAL SHALLOWS TEMPORARY
- OPEN WATER PERMANENT
- OPEN WATER TEMPORARY
- BRIDGE FOUNDATIONS (WETLAND) PERMANENT
- BRIDGE FOUNDATIONS (WETLAND) TEMPORARY
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) PERMANENT
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) TEMPORARY
- EXISTING HACKENSACK RIVER BRIDGE REMOVAL

KEY: 1 2 3 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

SCALE IN FEET
30' 20' 10' 0 30' 60'

Cedar Creek Marsh South Impacts		
	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	0.000	0.000
Wetland	0.005	0.005
Open Water	0.000	0.000
Bridge Foundation Subtidal Shallows	0.000	0.000
Bridge Foundation Wetlands	0.000	0.000
Riparian	0.000	0.000
Hackensack Bridge Removal	0.000	0.000

NOVEMBER 2025 MODIFICATIONS

No.	DATE:	REVISIONS	DESIGN	CHKD	APPRVD

DESIGNED:
DRAWN:
CHECKED:
APPROVED:

Jacobs Engineering Group, Inc.
Certificate No. 24GA27990200

RICHARD D. SIRABIAN
PROFESSIONAL ENGINEER
NJ LIC. No. 24GE03481000

PORTAL BRIDGE
CAPACITY ENHANCEMENT

ENVIRONMENTAL IMPACTS
SHEET 4

CEDAR CREEK MARSH
- NORTH & SOUTH

Amtrak FILE No: -
Amtrak Work Elem. No: -
ISSUE: 100% PE
DATE: JANUARY 2020

CONTRACT No.
DWG No. ENVCVL-4
SHEET No. 4 OF 23

FILENAME: c:\pwworking\gfpw01\peter.hoog@jacobs.com\d189867\nm_ENVCVL-4.dgn
DATE: 11/25/2025 5:40:41 PM
USER: phoog

Cedar Creek Marsh North Impacts		
	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	0.000	0.652
Wetland	0.038	0.257
Open Water	0.000	0.000
Bridge Foundation Subtidal Shallows	0.000	0.000
Bridge Foundation Wetlands	0.000	0.000
Riparian	0.000	0.000
Hackensack Bridge Removal	0.000	0.000

Cedar Creek Marsh South Impacts		
	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	0.000	0.000
Wetland	0.005	0.005
Open Water	0.000	0.000
Bridge Foundation Subtidal Shallows	0.000	0.000
Bridge Foundation Wetlands	0.000	0.000
Riparian	0.000	0.000
Hackensack Bridge Removal	0.000	0.000

MATCH LINE

MATCH LINE

TO NEWARK

TO BELLEVILLE TPK — 1A

CEDAR CREEK MARSH – NORTH

CEDAR CREEK MARSH – SOUTH

WALLED SECTION

STRUCTURE

WALLED SECTION

NWK-JC TPK

TEMPORARY CONSTRUCTION ACCESS ROAD

WALL B

WALL C

TRACK 3

TRACK 2

LIMIT OF 100-YEAR FLOOD(EL.10)

UG.7.03

EXISTING SIGNAL BRIDGE

NEWARK JERSEY CITY TPK.

WETLAND LIMIT

VITARROZ

LIMIT OF 100-YEAR FLOOD(EL.10)

EXISTING ACCESS ROAD

LEGEND

- MAPPED EDGE OF WATER
- WETLAND LIMIT
- MEAN HIGH WATER LINE (EL. 3.50 NGVD 29)
- MEAN LOW WATER LINE (EL. -1.77 NGVD 29)
- 100 YR. FLOOD PLAIN
- FLOODWAY (APPROX.)
- NAVIGATION CHANNEL
- RIPARIAN ZONE
- WETLAND PERMANENT
- WETLAND TEMPORARY
- SUBTIDAL / INTERTIDAL SHALLOWS PERMANENT
- SUBTIDAL / INTERTIDAL SHALLOWS TEMPORARY
- OPEN WATER PERMANENT
- OPEN WATER TEMPORARY
- BRIDGE FOUNDATIONS (WETLAND) PERMANENT
- BRIDGE FOUNDATIONS (WETLAND) TEMPORARY
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) PERMANENT
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) TEMPORARY
- EXISTING HACKENSACK RIVER BRIDGE REMOVAL

KEY: 1 2 3 4 6 7 8 9 10 11 12 13 14 15 16 17 18 19

SCALE IN FEET: 30' 20' 10' 0 30' 60'

No.	DATE:	REVISIONS	DESIGN	CHKD	APPRVD

NJ TRANSIT

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Portal Partners — NJ TRANSIT — AMTRAK — Gateway to Success

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DRAWN: PRH
CHECKED: FG
APPROVED: RDS

Jacobs Engineering Group, Inc.
Certificate No. 24GA27990200

RICHARD D. SIRABIAN
PROFESSIONAL ENGINEER
NJ LIC. No. 24GE03481000

PORTAL BRIDGE CAPACITY ENHANCEMENT

ENVIRONMENTAL IMPACTS SHEET 5A

CEDAR CREEK MARSH NORTH & SOUTH

Amtrak FILE No: -
Amtrak Work Elem. No: -
ISSUE: 100% PE
DATE: JANUARY 2020

CONTRACT No.
DWG No. ENVCVL-5A
SHEET No. 5 OF 23

FILENAME: c:\pwworking\ygfpw01\peter.hoog@jacobs.com\d1049272\ENVCVL-5A.dgn
DATE: 1/17/2020 9:49:32 AM
USER: phoog

Cedar Creek Marsh North Impacts			November 2025 Mod.	
	Temporary (acres)	Permanent (acres)	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	0.000	0.652	0.000	0.038
Wetland	0.038	0.257	2.279	0.000
Open Water	0.000	0.000	0.000	0.000
Bridge Foundation Subtidal Shallows	0.000	0.000	0.000	0.000
Bridge Foundation Wetlands	0.000	0.000	0.000	0.000
Riparian	0.000	0.000	0.000	0.000
Hackensack Bridge Removal	0.000	0.000	0.000	0.000

Cedar Creek Marsh South Impacts		
	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	0.000	0.000
Wetland	0.005	0.005
Open Water	0.000	0.000
Bridge Foundation Subtidal Shallows	0.000	0.000
Bridge Foundation Wetlands	0.000	0.000
Riparian	0.000	0.000
Hackensack Bridge Removal	0.000	0.000

MATCH LINE

MATCH LINE

TO NEWARK

TO

CEDAR CREEK MARSH NORTH
WETLAND (TEMPORARY) IMPACT
UPDATED NOVEMBER 2025
(TOTAL 2.279 Ac.)

CEDAR CREEK MARSH NORTH
WETLAND (TEMPORARY TO PERMANENT) IMPACT
UPDATED NOVEMBER 2025 (0.038 Ac.)

WALLED SECTION

STRUCTURE

WALLED SECTION

TEMPORARY CONSTRUCTION ACCESS ROAD

PARKING

WALL B

WALL C

SHEET PILES

RETAINING WALL

GRAVEL LAYDOWN AREA
MATERIAL STORAGE

TRACK 3

TRACK 2

UNDER CONSTRUCTION

BALLAST

CRIBBING

N/F AMTRAK - PENNA. TUNNEL & TERMINAL RAILROAD

NJT TRACK 5

NJT TRACK 6

LIMIT OF 100-YEAR FLOOD(EL.10)

NEWARK BAY

JERSEY CITY TPK

SIDE WALK

N/F NATIONAL WATER MAIN

N/F NATIONAL WATER MAIN
BL 286

N/F US POSTAL SERVICE

BITUMINOUS

WOODS

ROAD ACCESS EASEMENT

EXISTING ACCESS ROAD

EXISTING STAIRWAY

MATERIAL STORAGE

TRAFFIC BARRIERS

NEWARK & JERSEY CITY TURNPIKE

REEDS

SCRUB

TREES

GRASS

DIRT

DEBRIS

RUBBLE

SCRUB/DIRT

BILLBOARD

LEGEND

- WETLAND LIMIT
- MEAN HIGH WATER LINE (EL. 3.50 NGVD 29)
- MEAN LOW WATER LINE (EL. -1.77 NGVD 29)
- 100 YR. FLOOD PLAIN
- FLOODWAY (APPROX.)
- NAVIGATION CHANNEL
- RIPARIAN ZONE
- WETLAND PERMANENT
- WETLAND TEMPORARY
- SUBTIDAL / INTERTIDAL SHALLOWS PERMANENT
- SUBTIDAL / INTERTIDAL SHALLOWS TEMPORARY
- OPEN WATER PERMANENT
- OPEN WATER TEMPORARY
- BRIDGE FOUNDATIONS (WETLAND) PERMANENT
- BRIDGE FOUNDATIONS (WETLAND) TEMPORARY
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) PERMANENT
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) TEMPORARY
- EXISTING HACKENSACK RIVER BRIDGE REMOVAL

KEY: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

SCALE IN FEET
30' 20' 10' 0 30' 60'

NOVEMBER 2025 MODIFICATIONS

No.	DATE:	REVISIONS	DESIGN	CHKD	APPRVD

DESIGNED:
DRAWN:
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APPROVED:

Jacobs Engineering Group, Inc.
Certificate No. 24GA27990200

RICHARD D. SIRABIAN
PROFESSIONAL ENGINEER
NJ LIC. No. 24GE03481000

PORTAL BRIDGE
CAPACITY ENHANCEMENT

ENVIRONMENTAL IMPACTS
SHEET 5A

CEDAR CREEK MARSH
NORTH & SOUTH

Amtrak FILE No: -
Amtrak Work Elem. No: -
ISSUE: 100% PE
DATE: JANUARY 2020

CONTRACT No.
DWG No. ENVCVL-5A
SHEET No. 5 OF 23

FILENAME: c:\pwworking\gfpw01\peter.hoog@jacobs.com\d189867\mm_ENVCVL-5A.dgn
DATE: 11/25/2025 5:40:48 PM
USER: phoog

Belleville Turnpike - 1A Landfill Impacts		
	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	0.558	0.115
Wetland	0.614	0.302
Open Water	0.000	0.000
Bridge Foundation Subtidal Shallows	0.000	0.000
Bridge Foundation Wetlands	0.000	0.192
Riparian	0.000	0.000
Hackensack Bridge Removal	0.000	0.000

MATCH LINE

TO NEWARK

CEDAR CREEK MARSH – NORTH

WALLED SECTION

STRUCTURE

NWK-JC TPK

WALLED SECTION

TEMPORARY CONSTRUCTION ACCESS ROAD

BELLEVILLE TPK–1A

TO

MATCH LINE

WALL B

WALL C

ENVIRONMENTAL IMPACT AREA

TRACK 3

TRACK 2

LIMIT OF 100-YEAR FLOOD(EL.10)

UG.7.03

EXISTING SIGNAL BRIDGE

LIMIT OF 100-YEAR FLOOD(EL.10)

WETLAND LIMIT

NEWARK JERSEY CITY TPK.

VITARROZ

EXISTING ACCESS ROAD

CEDAR CREEK MARSH – SOUTH

LEGEND

- MAPPED EDGE OF WATER
- WETLAND LIMIT
- MEAN HIGH WATER LINE (EL. 3.50 NGVD 29)
- MEAN LOW WATER LINE (EL. -1.77 NGVD 29)
- 100 YR. FLOOD PLAIN
- FLOODWAY (APPROX.)
- NAVIGATION CHANNEL
- RIPARIAN ZONE
- WETLAND PERMANENT
- WETLAND TEMPORARY
- SUBTIDAL / INTERTIDAL SHALLOWS PERMANENT
- SUBTIDAL / INTERTIDAL SHALLOWS TEMPORARY
- OPEN WATER PERMANENT
- OPEN WATER TEMPORARY
- BRIDGE FOUNDATIONS (WETLAND) PERMANENT
- BRIDGE FOUNDATIONS (WETLAND) TEMPORARY
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) PERMANENT
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) TEMPORARY
- EXISTING HACKENSACK RIVER BRIDGE REMOVAL

KEY: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

SCALE IN FEET: 30' 20' 10' 0 30' 60'

KEY

Vitarroz Impacts		
	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	0.000	0.000
Wetland	0.000	0.008
Open Water	0.000	0.000
Bridge Foundation Subtidal Shallows	0.000	0.000
Bridge Foundation Wetlands	0.000	0.000
Riparian	0.000	0.000
Hackensack Bridge Removal	0.000	0.000

No.	DATE:	REVISIONS	DESIGN	CHKD	APPRVD

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RICHARD D. SIRABIAN
PROFESSIONAL ENGINEER
NJ LIC. No. 24GE03481000

PORTAL BRIDGE CAPACITY ENHANCEMENT

ENVIRONMENTAL IMPACTS SHEET 5B BELLEVILLE TPK 1A LANDFILL & VITTAROZ

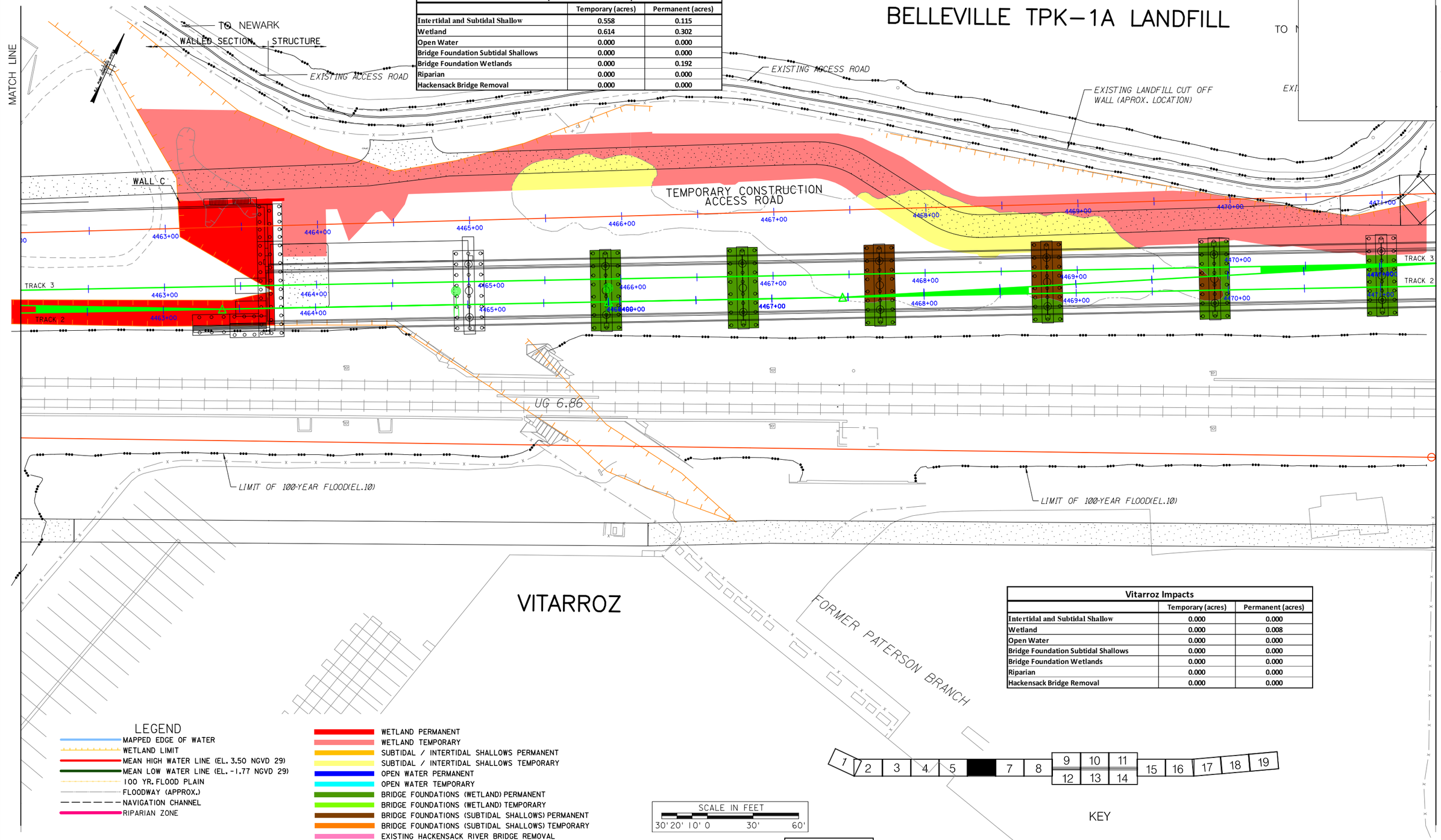
Amtrak FILE No: -
Amtrak Work Elem. No: -
ISSUE: 100% PE
DATE: JANUARY 2020

CONTRACT No.
DWG No. ENVCVL-5B
SHEET No. 6 OF 23

FILENAME: c:\pwworking\vgfpw01\peter.noog@jacobs.com\d1049272\ENVCVL-5B.dgn
DATE: 1/17/2020 9:50:29 AM
USER: pnoog

BELLEVILLE TPK–1A LANDFILL

Belleville Turnpike - 1A Landfill Impacts		
	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	0.558	0.115
Wetland	0.614	0.302
Open Water	0.000	0.000
Bridge Foundation Subtidal Shallows	0.000	0.000
Bridge Foundation Wetlands	0.000	0.192
Riparian	0.000	0.000
Hackensack Bridge Removal	0.000	0.000



Vitarroz Impacts		
	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	0.000	0.000
Wetland	0.000	0.008
Open Water	0.000	0.000
Bridge Foundation Subtidal Shallows	0.000	0.000
Bridge Foundation Wetlands	0.000	0.000
Riparian	0.000	0.000
Hackensack Bridge Removal	0.000	0.000

LEGEND

- MAPPED EDGE OF WATER
- WETLAND LIMIT
- MEAN HIGH WATER LINE (EL. 3.50 NGVD 29)
- MEAN LOW WATER LINE (EL. -1.77 NGVD 29)
- 100 YR. FLOOD PLAIN
- FLOODWAY (APPROX.)
- NAVIGATION CHANNEL
- RIPARIAN ZONE
- WETLAND PERMANENT
- WETLAND TEMPORARY
- SUBTIDAL / INTERTIDAL SHALLOWS PERMANENT
- SUBTIDAL / INTERTIDAL SHALLOWS TEMPORARY
- OPEN WATER PERMANENT
- OPEN WATER TEMPORARY
- BRIDGE FOUNDATIONS (WETLAND) PERMANENT
- BRIDGE FOUNDATIONS (WETLAND) TEMPORARY
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) PERMANENT
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) TEMPORARY
- EXISTING HACKENSACK RIVER BRIDGE REMOVAL

SCALE IN FEET
30' 20' 10' 0 30' 60'

KEY: 1 2 3 4 5 7 8 9 10 11 12 13 14 15 16 17 18 19

No.	DATE:	REVISIONS	DESIGN	CHKD	APPRVD

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APPROVED: RDS

Jacobs Engineering Group, Inc.
Certificate No. 24GA27990200

RICHARD D. SIRABIAN
PROFESSIONAL ENGINEER
NJ LIC. No. 24GE03481000

PORTAL BRIDGE
CAPACITY ENHANCEMENT

ENVIRONMENTAL IMPACTS
SHEET 6
BELLEVILLE TPK 1A LANDFILL
&
VITTAROZ

Amtrak FILE No: -
Amtrak Work Elem. No: -
ISSUE: 100% PE
DATE: JANUARY 2020

CONTRACT No.
DWG No. ENVCVL-6
SHEET No. 7 OF 23

FILENAME: c:\pwworking\gfpw01\peter.hoag@jacobs.com\d104927\ENVCVL-6.dgn
DATE: 1/17/2020 9:51:26 AM
USER: phoag

BELLEVILLE TPK–1A LANDFILL

Belleville Turnpike - 1A Landfill Impacts			November 2025 Mod.	
	Temporary (acres)	Permanent (acres)	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	~~0.558~~	0.115	0.000	0.558
Wetland	~~0.614~~	0.302	0.000	0.614
Open Water	0.000	0.000	0.000	0.000
Bridge Foundation Subtidal Shallows	0.000	0.000	0.000	0.000
Bridge Foundation Wetlands	0.000	0.192	0.000	0.000
Riparian	~~0.000~~	0.000	0.000	0.000
Hackensack Bridge Removal	0.000	0.000	0.000	0.000

MATCH LINE

TO NEWARK

WALLED SECTION

STRUCTURE

EXISTING ACCESS ROAD

WALL JC

APPROX. EDGE OF EXISTING PHRAGMITES

TRACK 3

TRACK 2

4463+00

4464+00

4465+00

4466+00

4467+00

4468+00

4469+00

4470+00

4471+00

PERMANENT ~~TEMPORARY~~ CONSTRUCTION ACCESS ROAD

BELLEVILLE TPK-1A LANDFILL
WETLAND (TEMPORARY TO PERMANENT) IMPACT
UPDATED NOVEMBER 2025 (0.614 Ac.)

EXISTING LANDFILL CUT OFF WALL (APROX. LOCATION)

UG 6.86

LIMIT OF 100-YEAR FLOODXEL.10)

LIMIT OF 100-YEAR FLOODXEL.10)

VITARROZ

FORMER PATERSON BRANCH

Vitarroz Impacts		
	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	0.000	0.000
Wetland	0.000	0.008
Open Water	0.000	0.000
Bridge Foundation Subtidal Shallows	0.000	0.000
Bridge Foundation Wetlands	0.000	0.000
Riparian	0.000	0.000
Hackensack Bridge Removal	0.000	0.000

LEGEND

- MAPPED EDGE OF WATER
- WETLAND LIMIT
- MEAN HIGH WATER LINE (EL. 3.50 NGVD 29)
- MEAN LOW WATER LINE (EL. -1.77 NGVD 29)
- 100 YR. FLOOD PLAIN
- FLOODWAY (APPROX.)
- NAVIGATION CHANNEL
- RIPARIAN ZONE

- WETLAND PERMANENT
- WETLAND TEMPORARY
- SUBTIDAL / INTERTIDAL SHALLOWS PERMANENT
- SUBTIDAL / INTERTIDAL SHALLOWS TEMPORARY
- OPEN WATER PERMANENT
- OPEN WATER TEMPORARY
- BRIDGE FOUNDATIONS (WETLAND) PERMANENT
- BRIDGE FOUNDATIONS (WETLAND) TEMPORARY
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) PERMANENT
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) TEMPORARY
- EXISTING HACKENSACK RIVER BRIDGE REMOVAL

SCALE IN FEET
30' 20' 10' 0 30' 60'

KEY: 1 2 3 4 5 7 8 9 10 11 12 13 14 15 16 17 18 19

NOVEMBER 2025 MODIFICATIONS

No.	DATE:	REVISIONS	DESIGN	CHKD	APPRVD

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Jacobs Engineering Group, Inc.
Certificate No. 24GA27990200

RICHARD D. SIRABIAN
PROFESSIONAL ENGINEER
NJ LIC. No. 24GE03481000

PORTAL BRIDGE
CAPACITY ENHANCEMENT

ENVIRONMENTAL IMPACTS
SHEET 6
BELLEVILLE TPK 1A LANDFILL
&
VITTAROZ

Amtrak FILE No: -
Amtrak Work Elem. No: -
ISSUE: 100% PE
DATE: JANUARY 2020

CONTRACT No.
DWG No. ENVCVL-6
SHEET No. 7 OF 23

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DATE: 11/25/2025 5:40:55 PM
USER: phoog

Belleville Turnpike - 1A Landfill Impacts		
	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	0.558	0.115
Wetland	0.614	0.302
Open Water	0.000	0.000
Bridge Foundation Subtidal Shallows	0.000	0.000
Bridge Foundation Wetlands	0.000	0.192
Riparian	0.000	0.000
Hackensack Bridge Removal	0.000	0.000

BELLEVILLE TPK–1A LANDFILL

TEMPORARY CONSTRUCTION ACCESS TRESTLE #1

MATCH LINE

EXISTING ACCESS ROAD

TO NEWARK

WETLAND LIMIT

STRUCTURE

DUCKUNDER STRUC

KEARNY BRACKI

TO

MAINTAIN PAVED ACCESS AR

EXIST. TIMBER STRUCTURE OVER DITCH

DUCKUNDER STRUCTURE

TRACK 3

TRACK 2

4472+00 4473+00 4474+00 4475+00 4476+00 4477+00 4478+00 4479+00 4480+00

EXISTING ACCESS ROAD

EXIST. TIMBER STRUCTURE OVER DITCH

UG6.59

LIMIT OF 100-YEAR FLOOD(EL.10)

BELLEVILLE TPK.

VITARROZ

DIAMOND SHAMROCK

LIMIT OF 100-YEAR FLOOD(EL.9)

LEGEND

- MAPPED EDGE OF WATER
- WETLAND LIMIT
- MEAN HIGH WATER LINE (EL. 3.50 NGVD 29)
- MEAN LOW WATER LINE (EL. -1.77 NGVD 29)
- 100 YR. FLOOD PLAIN
- FLOODWAY (APPROX.)
- NAVIGATION CHANNEL
- RIPARIAN ZONE
- WETLAND PERMANENT
- WETLAND TEMPORARY
- SUBTIDAL / INTERTIDAL SHALLOWS PERMANENT
- SUBTIDAL / INTERTIDAL SHALLOWS TEMPORARY
- OPEN WATER PERMANENT
- OPEN WATER TEMPORARY
- BRIDGE FOUNDATIONS (WETLAND) PERMANENT
- BRIDGE FOUNDATIONS (WETLAND) TEMPORARY
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) PERMANENT
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) TEMPORARY
- EXISTING HACKENSACK RIVER BRIDGE REMOVAL

KEY: 1 2 3 4 5 6 8 9 10 11 12 13 14 15 16 17 18 19

SCALE IN FEET
30' 20' 10' 0 30' 60'

Vitarroz Impacts		
	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	0.000	0.000
Wetland	0.000	0.008
Open Water	0.000	0.000
Bridge Foundation Subtidal Shallows	0.000	0.000
Bridge Foundation Wetlands	0.000	0.000
Riparian	0.000	0.000
Hackensack Bridge Removal	0.000	0.000

No.	DATE:	REVISIONS	DESIGN	CHKD	APPRVD

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Certificate No. 24GA27990200

RICHARD D. SIRABIAN
PROFESSIONAL ENGINEER
NJ LIC. No. 24GE03481000

PORTAL BRIDGE
CAPACITY ENHANCEMENT

ENVIRONMENTAL IMPACTS
SHEET 7A
BELLEVILLE TPK 1A LANDFILL
&
VITTAROZ

Amtrak FILE No: -
Amtrak Work Elem. No: -
ISSUE: 100% PE
DATE: JANUARY 2020

CONTRACT No.
DWG No. ENVCVL-7A
SHEET No. 8 OF 23

FILENAME: c:\pwworking\ygfpw01\peter.hoog@jacobs.com\d1049272\ENVCVL-7A.dgn
DATE: 1/17/2020 9:52:01 AM
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MATCH LINE

EXISTING ACCESS ROAD

TO NEWARK

WETLAND LIMIT

BELLEVILLE TPK-1A LANDFILL

TEMPORARY CONSTRUCTION ACCESS TRESTLE #1

STRUCTURE

DUCKUNDER STRUC

TO

KEARNY BRACKISH MARSH

MAINTAIN PAVED ACCESS AR

CONSTRUCTION

EXIST. TIMBER STRUCTURE OVER DITCH

DUCKUNDER STRUCTURE

TRACK 3

TRACK 2

4472+00 4473+00 4474+00 4475+00 4476+00 4477+00 4478+00 4479+00 4480+00

EXISTING ACCESS ROAD

EXIST. TIMBER STRUCTURE OVER DITCH

UG6.59

LIMIT OF 100-YEAR FLOOD(EL.9)

BELLEVILLE TPK.

VITARROZ

DIAMOND SHAMROCK

MATCH LINE

Kearny Brackish Marsh Impacts

	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	0.350	0.000
Wetland	0.032	0.000
Open Water	0.000	0.000
Bridge Foundation Subtidal Shallows	0.000	0.156
Bridge Foundation Wetlands	0.000	0.003
Riparian	0.000	0.042
Hackensack Bridge Removal	0.000	0.000

Diamond Shamrock Impacts

	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	0.000	0.000
Wetland	0.010	0.000
Open Water	0.000	0.000
Bridge Foundation Subtidal Shallows	0.000	0.000
Bridge Foundation Wetlands	0.000	0.000
Riparian	0.000	0.000
Hackensack Bridge Removal	0.000	0.600

LEGEND

- MAPPED EDGE OF WATER
- WETLAND LIMIT
- MEAN HIGH WATER LINE (EL. 3.50 NGVD 29)
- MEAN LOW WATER LINE (EL. -1.77 NGVD 29)
- 100 YR. FLOOD PLAIN
- FLOODWAY (APPROX.)
- NAVIGATION CHANNEL
- RIPARIAN ZONE
- WETLAND PERMANENT
- WETLAND TEMPORARY
- SUBTIDAL / INTERTIDAL SHALLOWS PERMANENT
- SUBTIDAL / INTERTIDAL SHALLOWS TEMPORARY
- OPEN WATER PERMANENT
- OPEN WATER TEMPORARY
- BRIDGE FOUNDATIONS (WETLAND) PERMANENT
- BRIDGE FOUNDATIONS (WETLAND) TEMPORARY
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) PERMANENT
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) TEMPORARY
- EXISTING HACKENSACK RIVER BRIDGE REMOVAL

KEY: 1 2 3 4 5 6 8 9 10 11 12 13 14 15 16 17 18 19

No.	DATE:	REVISIONS	DESIGN	CHKD	APPRVD

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Portal Partners — NJ TRANSIT / AMTRAK — Gateway to Success

JACOBS™ 299 Madison Ave, Morristown, NJ 07962

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APPROVED: RDS

Jacobs Engineering Group, Inc. Certificate No. 24GA27990200

RICHARD D. SIRABIAN PROFESSIONAL ENGINEER NJ LIC. No. 24GE03481000

PORTAL BRIDGE CAPACITY ENHANCEMENT

ENVIRONMENTAL IMPACTS SHEET 7B KEARNY BRACKISH MARSH & DIAMOND SHAMROCK

Amtrak FILE No: -
Amtrak Work Elem. No: -
ISSUE: 100% PE
DATE: JANUARY 2020

CONTRACT No.
DWG No. ENVCVL-7B
SHEET No. 9 OF 23

FILENAME: c:\pwworking\ygfpw01\peter.hoog@jacobs.com\d1049272\ENVCVL-7B.dgn
DATE: 1/17/2020 9:52:37 AM
USER: phoog

MATCH LINE

TO NEWARK

WETLAND LIMIT

DUCKUNDER STRUCTURE

STRUCTURE

TO KEARNY BRACKISH MARSH

MATCH LINE

Kearny Brackish Marsh Impacts		
	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	0.350	0.000
Wetland	0.032	0.000
Open Water	0.000	0.000
Bridge Foundation Subtidal Shallows	0.000	0.156
Bridge Foundation Wetlands	0.000	0.003
Riparian	0.000	0.042
Hackensack Bridge Removal	0.000	0.000

TEMPORARY CONSTRUCTION ACCESS

TRACK 3

TRACK 2

TRACK 1

EXISTING ACCESS ROAD

4481+00 4482+00 4483+00 4484+00 4485+00 4486+00 4487+00 4488+00 4489+00 4490+00

LIMIT OF 100-YEAR FLOOD(EL.9)

Diamond Shamrock Impacts		
	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	0.000	0.000
Wetland	0.010	0.000
Open Water	0.000	0.000
Bridge Foundation Subtidal Shallows	0.000	0.000
Bridge Foundation Wetlands	0.000	0.000
Riparian	0.000	0.000
Hackensack Bridge Removal	0.000	0.000

DIAMOND SHAMROCK

LEGEND

- MAPPED EDGE OF WATER
- WETLAND LIMIT
- MEAN HIGH WATER LINE (EL. 3.50 NGVD 29)
- MEAN LOW WATER LINE (EL. -1.77 NGVD 29)
- 100 YR. FLOOD PLAIN
- FLOODWAY (APPROX.)
- NAVIGATION CHANNEL
- RIPARIAN ZONE
- WETLAND PERMANENT
- WETLAND TEMPORARY
- SUBTIDAL / INTERTIDAL SHALLOWS PERMANENT
- SUBTIDAL / INTERTIDAL SHALLOWS TEMPORARY
- OPEN WATER PERMANENT
- OPEN WATER TEMPORARY
- BRIDGE FOUNDATIONS (WETLAND) PERMANENT
- BRIDGE FOUNDATIONS (WETLAND) TEMPORARY
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) PERMANENT
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) TEMPORARY
- EXISTING HACKENSACK RIVER BRIDGE REMOVAL

SCALE IN FEET
30' 20' 10' 0 30' 60'

KEY

1 2 3 4 5 6 7 9 10 11 12 13 14 15 16 17 18 19

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RICHARD D. SIRABIAN
PROFESSIONAL ENGINEER
NJ LIC. No. 24GE03481000

PORTAL BRIDGE CAPACITY ENHANCEMENT

ENVIRONMENTAL IMPACTS SHEET 8 KEARNY BRACKISH MARSH & DIAMOND SHAMROCK

Amtrak FILE No: -	CONTRACT No.
Amtrak Work Elem. No: -	DWG No. ENVCVL-8
ISSUE: 100% PE	SHEET No. 10 OF 23
DATE: JANUARY 2020	

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KEARNY BRACKISH MARSH

TO NEWARK

TO

MATCH LINE

MATCH LINE

KEY

1 2 3 4 5 6 7 8 10 11 12 13 14 15 16 17 18 19

Kearny Brackish Marsh Impacts		
	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	0.350	0.000
Wetland	0.032	0.000
Open Water	0.000	0.000
Bridge Foundation Subtidal Shallows	0.000	0.156
Bridge Foundation Wetlands	0.000	0.003
Riparian	0.000	0.042
Hackensack Bridge Removal	0.000	0.000

STRUCTURE

ABANDONED ARLINGTON BRANCH

WETLAND LIMIT

TEMPORARY CONSTRUCTION ACCESS ROAD

TEMPORARY CONSTRUCTION ACCESS TRESTLE #2

CONSTRUCTION ACCESS PLATFORM - TEMPORARY

MAINTAIN EXISTING ACCESS

MAINTAIN EXISTING ACCESS

TEMPORARY CONSTRUCTION ACCESS ROAD

UG 6.28

TRACK 3

TRACK 2

4490+00 4491+00 4492+00 4493+00 4494+00 4495+00 4496+00 4497+00 4498+00 4499+00

LIMIT OF 100-YEAR FLOOD(EL.9)

LEGEND

- MAPPED EDGE OF WATER
- WETLAND LIMIT
- MEAN HIGH WATER LINE (EL. 3.50 NGVD 29)
- MEAN LOW WATER LINE (EL. -1.77 NGVD 29)
- 100 YR. FLOOD PLAIN
- FLOODWAY (APPROX.)
- NAVIGATION CHANNEL
- RIPARIAN ZONE

- WETLAND PERMANENT
- WETLAND TEMPORARY
- SUBTIDAL / INTERTIDAL SHALLOWS PERMANENT
- SUBTIDAL / INTERTIDAL SHALLOWS TEMPORARY
- OPEN WATER PERMANENT
- OPEN WATER TEMPORARY
- BRIDGE FOUNDATIONS (WETLAND) PERMANENT
- BRIDGE FOUNDATIONS (WETLAND) TEMPORARY
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) PERMANENT
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) TEMPORARY
- EXISTING HACKENSACK RIVER BRIDGE REMOVAL

SCALE IN FEET
30' 20' 10' 0' 30' 60'

MATCH LINE

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PORTAL BRIDGE CAPACITY ENHANCEMENT

ENVIRONMENTAL IMPACTS SHEET 9

KEARNY BRACKISH MARSH

Amtrak FILE No: -
Amtrak Work Elem. No: -
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DATE: JANUARY 2020

CONTRACT No.
DWG No. ENVCVL-9
SHEET No. 11 OF 23

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MATCH LINE

← TO NEWARK

Kearny Brackish Marsh Impacts		
	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	0.350	0.000
Wetland	0.032	0.000
Open Water	0.000	0.000
Bridge Foundation Subtidal Shallows	0.000	0.156
Bridge Foundation Wetlands	0.000	0.003
Riparian	0.000	0.042
Hackensack Bridge Removal	0.000	0.000

KEARNY BRACKISH MARSH

TEMPORARY CONSTRUCTION ACCESS TRESTLE #2

CONSTRUCTION ACCESS PLATFORM - TEMPORARY.

STRUCTURE

Finger Pier–NW

HACKENSACK RIVER

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 / 12 | 11 / 13 | 14 | 15 | 16 | 17 | 18 | 19

TO NEW

LEGEND

- MAPPED EDGE OF WATER
- WETLAND LIMIT
- MEAN HIGH WATER LINE (EL. 3.50 NGVD 29)
- MEAN LOW WATER LINE (EL. -1.77 NGVD 29)
- 100 YR. FLOOD PLAIN
- FLOODWAY (APPROX.)
- NAVIGATION CHANNEL
- RIPARIAN ZONE
- WETLAND PERMANENT
- WETLAND TEMPORARY
- SUBTIDAL / INTERTIDAL SHA
- SUBTIDAL / INTERTIDAL SHA
- OPEN WATER PERMANENT
- OPEN WATER TEMPORARY
- BRIDGE FOUNDATIONS (WETLAND) PERMANENT
- BRIDGE FOUNDATIONS (WETLAND) TEMPORARY
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) PERMANENT
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) TEMPORARY
- EXISTING HACKENSACK RIVER BRIDGE REMOVAL

TRACK 3
TRACK 2
4500+00
4501+00
4502+00
4503+00
4504+00
4505+00
4506+00
4507+00
4508+00

WETLAND LIMIT

LIMIT OF 100-YEAR FLOOD(EL.9)

SCALE IN FEET
30' 20' 10' 0 30' 60'

MATCH LINE

MATCH LINE

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RICHARD D. SIRABIAN
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NJ LIC. No. 24GE03481000

PORTAL BRIDGE CAPACITY ENHANCEMENT

ENVIRONMENTAL IMPACTS
SHEET 10A

KEARNY BRACKISH MARSH

Amtrak FILE No: -
Amtrak Work Elem. No: -
ISSUE: 100% PE
DATE: JANUARY 2020

CONTRACT No.
DWG No. ENVCVL-10A
SHEET No. 12 OF 23

MATCH LINE

TO NEWARK

KEARNY BRACKISH MARSH

Finger Pier–NW

TEMPORARY CONSTRUCTION ACCESS TRESTLE #2

CONSTRUCTION ACCESS PLATFORM - TEMPORARY.

STRUCTURE

HACKENSACK RIVER

TRACK 3

TRACK 2

4500+00 4501+00 4502+00 4503+00 4504+00 4505+00 4506+00 4507+00 4508+00

WETLAND LIMIT

LIMIT OF 100-YEAR FLOOD(EL.9)

SCALE IN FEET
30' 20' 10' 0 30' 60'

MATCH LINE

1 2 3 4 5 6 7 8 9 11 12 13 14 15 16 17 18 19

TO NEW

LEGEND

- MAPPED EDGE OF WATER
- WETLAND LIMIT
- MEAN HIGH WATER LINE (EL. 3.50 NGVD 29)
- MEAN LOW WATER LINE (EL. -1.77 NGVD 29)
- 100 YR. FLOOD PLAIN
- FLOODWAY (APPROX.)
- NAVIGATION CHANNEL
- RIPARIAN ZONE
- WETLAND PERMANENT
- WETLAND TEMPORARY
- SUBTIDAL / INTERTIDAL SHA
- SUBTIDAL / INTERTIDAL SHA
- OPEN WATER PERMANENT
- OPEN WATER TEMPORARY
- BRIDGE FOUNDATIONS (WETLAND) PERMANENT
- BRIDGE FOUNDATIONS (WETLAND) TEMPORARY
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) PERMANENT
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) TEMPORARY
- EXISTING HACKENSACK RIVER BRIDGE REMOVAL

Hackensack River Impacts

	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	0.000	0.000
Wetland	0.000	0.000
Open Water	0.152	0.432
Bridge Foundation Subtidal Shallows	0.000	0.000
Bridge Foundation Wetlands	0.000	0.000
Riparian	0.000	0.000
Hackensack Bridge Removal	0.000	0.600

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PORTAL BRIDGE CAPACITY ENHANCEMENT

ENVIRONMENTAL IMPACTS
SHEET 10B

HACKENSACK RIVER

Amtrak FILE No: -
Amtrak Work Elem. No: -
ISSUE: 100% PE
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CONTRACT No.
DWG No. ENVCVL-10B
SHEET No. 13 OF 23

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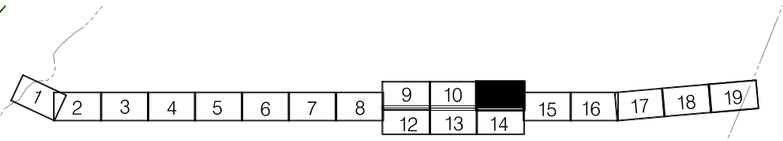
MATCH LINE

TO NEWARK

Hackensack River Impacts		
	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	0.000	0.000
Wetland	0.000	0.000
Open Water	0.152	0.432
Bridge Foundation Subtidal Shallows	0.000	0.000
Bridge Foundation Wetlands	0.000	0.000
Riparian	0.000	0.000
Hackensack Bridge Removal	0.000	0.600



KEY

HACKENSACK RIVER

LAUREL HILL PARK MARSH

Finger Pier–NE

STRUCTURE

Laurel Hill Park Impacts		
	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	0.059	0.045
Wetland	0.499	1.328
Open Water	0.296	0.082
Bridge Foundation Subtidal Shallows	0.000	0.067
Bridge Foundation Wetlands	0.032	0.097
Riparian	0.000	0.085
Hackensack Bridge Removal	0.000	0.000

PERMANENT CONSTRUCTION ACCESS TRESTLE #3

TRACK 3

TRACK 2

4509+00
4510+00
4511+00
4512+00
4513+00
4514+00
4515+00
4516+00

WETLAND LIMIT

LEGEND

- MAPPED EDGE OF WATER
- WETLAND LIMIT
- MEAN HIGH WATER LINE (EL. 3.50 NGVD 29)
- MEAN LOW WATER LINE (EL. -1.77 NGVD 29)
- 100 YR. FLOOD PLAIN
- FLOODWAY (APPROX.)
- NAVIGATION CHANNEL
- RIPARIAN ZONE
- WETLAND PERMANENT
- WETLAND TEMPORARY
- SUBTIDAL / INTERTIDAL SHALLOWS PERMANENT
- SUBTIDAL / INTERTIDAL SHALLOWS TEMPORARY
- OPEN WATER PERMANENT
- OPEN WATER TEMPORARY
- BRIDGE FOUNDATIONS (WETLAND) PERMANENT
- BRIDGE FOUNDATIONS (WETLAND) TEMPORARY
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) PERMANENT
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) TEMPORARY
- EXISTING HACKENSACK RIVER BRIDGE REMOVAL

SCALE IN FEET
30' 20' 10' 0 30' 60'

MATCH LINE

MATCH LINE

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PORTAL BRIDGE CAPACITY ENHANCEMENT

ENVIRONMENTAL IMPACTS SHEET 11 HACKENSACK RIVER & LAUREL HILL PARK MARSH

Amtrak FILE No: -
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DWG No. ENVCVL-11
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TO NEWARK

MATCH LINE

TO NEW

MATCH LINE

UG6.86

ABANDONED ARLINGTON BRANCH

LIMIT OF 100-YEAR FLOOD(EL.9)

LIMIT OF 100-YEAR FLOOD(EL.9)

4491+00

4492+00

4493+00

4494+00

4495+00

4496+00

4497+00

4498+00

4499+00

WETLAND LIMIT

DIAMOND SHAMROCK

Diamond Shamrock Impacts		
	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	0.000	0.000
Wetland	0.010	0.000
Open Water	0.000	0.000
Bridge Foundation Subtidal Shallows	0.000	0.000
Bridge Foundation Wetlands	0.000	0.000
Riparian	0.000	0.000
Hackensack Bridge Removal	0.000	0.000

LEGEND

- MAPPED EDGE OF WATER
- WETLAND LIMIT
- MEAN HIGH WATER LINE (EL. 3.50 NGVD 29)
- MEAN LOW WATER LINE (EL. -1.77 NGVD 29)
- 100 YR. FLOOD PLAIN
- FLOODWAY (APPROX.)
- NAVIGATION CHANNEL
- RIPARIAN ZONE
- WETLAND PERMANENT
- WETLAND TEMPORARY
- SUBTIDAL / INTERTIDAL SHALLOWS PERMANENT
- SUBTIDAL / INTERTIDAL SHALLOWS TEMPORARY
- OPEN WATER PERMANENT
- OPEN WATER TEMPORARY
- BRIDGE FOUNDATIONS (WETLAND) PERMANENT
- BRIDGE FOUNDATIONS (WETLAND) TEMPORARY
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) PERMANENT
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) TEMPORARY
- EXISTING HACKENSACK RIVER BRIDGE REMOVAL

TO NEWARK

KEY

1 2 3 4 5 6 7 8 9 10 11 13 14 15 16 17 18 19

SCALE IN FEET

30' 20' 10' 0 30' 60'

TO NEW YORK

MATCH LINE

No.	DATE:	REVISIONS	DESIGN	CHKD	APPRVD

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PORTAL BRIDGE
CAPACITY ENHANCEMENT

ENVIRONMENTAL IMPACTS
SHEET 12

DIAMOND SHAMROCK

Amtrak FILE No: -
Amtrak Work Elem. No: -
ISSUE: 100% PE
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CONTRACT No.
DWG No. ENVCVL-12
SHEET No. 15 OF 23

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MATCH LINE

4500+00 4501+00 4502+00 4503+00 4504+00 4505+00 4506+00 4507+00 4508+00

HACKENSACK RIVER

HACKENSACK RIVER

Finger Pier–SW

Finger Pier–SE

200' MINIMUM CLEARANCE NAVIGABLE CHANNEL

Hackensack River Impacts		
	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	0.000	0.000
Wetland	0.000	0.000
Open Water	0.152	0.432
Bridge Foundation Subtidal Shallows	0.000	0.000
Bridge Foundation Wetlands	0.000	0.000
Riparian	0.000	0.000
Hackensack Bridge Removal	0.000	0.600

MATCH LINE

TO NEWARK

1 2 3 4 5 6 7 8 9 10 11 12 14 15 16 17 18 19

KEY

LEGEND

- MAPPED EDGE OF WATER
- WETLAND LIMIT
- MEAN HIGH WATER LINE (EL. 3.50 NGVD 29)
- MEAN LOW WATER LINE (EL. -1.77 NGVD 29)
- 100 YR. FLOOD PLAIN
- FLOODWAY (APPROX.)
- NAVIGATION CHANNEL
- RIPARIAN ZONE
- WETLAND PERMANENT
- WETLAND TEMPORARY
- SUBTIDAL / INTERTIDAL SHALLOWS PERMANENT
- SUBTIDAL / INTERTIDAL SHALLOWS TEMPORARY
- OPEN WATER PERMANENT
- OPEN WATER TEMPORARY
- BRIDGE FOUNDATIONS (WETLAND) PERMANENT
- BRIDGE FOUNDATIONS (WETLAND) TEMPORARY
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) PERMANENT
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) TEMPORARY
- EXISTING HACKENSACK RIVER BRIDGE REMOVAL

SCALE IN FEET
30' 20' 10' 0 30' 60'

TO NEW YORK

MATCH LINE

No.	DATE:	REVISIONS	DESIGN	CHKD	APPRVD

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PORTAL BRIDGE CAPACITY ENHANCEMENT

ENVIRONMENTAL IMPACTS SHEET 13

HACKENSACK RIVER

Amtrak FILE No: -
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CONTRACT No.
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SHEET No. 16 OF 23

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MATCH LINE

HACKENSACK RIVER

LIMIT OF 100-YEAR FLOOD(EL.9)

EXISTING ACCESS ROAD

509+00

4510+00

4511+00

4512+00

MATCH LINE

RIVERBEND WETLAND PRESERVE

Riverbend Wetland Preserve Impacts		
	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	0.128	0.012
Wetland	1.335	0.250
Open Water	0.000	0.000
Bridge Foundation Subtidal Shallows	0.045	0.024
Bridge Foundation Wetlands	0.390	0.058
Riparian	0.358	0.127
Hackensack Bridge Removal	0.000	0.000

LEGEND

- MAPPED EDGE OF WATER
- WETLAND LIMIT
- MEAN HIGH WATER LINE (EL. 3.50 NGVD 29)
- MEAN LOW WATER LINE (EL. -1.77 NGVD 29)
- 100 YR. FLOOD PLAIN
- FLOODWAY (APPROX.)
- NAVIGATION CHANNEL
- RIPARIAN ZONE

- WETLAND PERMANENT
- WETLAND TEMPORARY
- SUBTIDAL / INTERTIDAL SHALLOWS PERMANENT
- SUBTIDAL / INTERTIDAL SHALLOWS TEMPORARY
- OPEN WATER PERMANENT
- OPEN WATER TEMPORARY
- BRIDGE FOUNDATIONS (WETLAND) PERMANENT
- BRIDGE FOUNDATIONS (WETLAND) TEMPORARY
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) PERMANENT
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) TEMPORARY
- EXISTING HACKENSACK RIVER BRIDGE REMOVAL

MATCH LINE

TO NEWARK

KEY

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 15 | 16 | 17 | 18 | 19

SCALE IN FEET

30' 20' 10' 0 30' 60'

TO NEW YORK

No.	DATE:	REVISIONS	DESIGN	CHKD	APPRVD

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PORTAL BRIDGE
CAPACITY ENHANCEMENT

ENVIRONMENTAL IMPACTS
SHEET 14

RIVERBEND WETLAND PRESERVE

Amtrak FILE No: -
Amtrak Work Elem. No: -
ISSUE: 100% PE
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CONTRACT No.
DWG No. ENVCVL-14
SHEET No. 17 OF 23

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LAUREL HILL PARK MARSH

MATCH LINE

MATCH LINE

← TO NEWARK

PERMANENT CONSTRUCTION ACCESS TRESTLE #3

Laurel Hill Park Impacts		
	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	0.059	0.045
Wetland	0.499	1.328
Open Water	0.296	0.082
Bridge Foundation Subtidal Shallows	0.000	0.067
Bridge Foundation Wetlands	0.032	0.097
Riparian	0.000	0.085
Hackensack Bridge Removal	0.000	0.000

STRUCTURE

1 2 3 4 5 6 7 8 9 10 11 12 13 14 16 17 18 19

TO

LEGEND

- MAPPED EDGE OF WATER
- WETLAND LIMIT
- MEAN HIGH WATER LINE (EL. 3.50 NGVD 29)
- MEAN LOW WATER LINE (EL. -1.77 NGVD 29)
- 100 YR. FLOOD PLAIN
- FLOODWAY (APPROX.)
- NAVIGATION CHANNEL
- RIPARIAN ZONE

KEY

- WETLAND PERMANENT
- WETLAND TEMPORARY
- SUBTIDAL / INTERTIDAL SHALLOWS PERMANENT
- SUBTIDAL / INTERTIDAL SHALLOWS TEMPORARY
- OPEN WATER PERMANENT
- OPEN WATER TEMPORARY
- BRIDGE FOUNDATIONS (WETLAND) PERMANENT
- BRIDGE FOUNDATIONS (WETLAND) TEMPORARY
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) PERMANENT
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) TEMPORARY
- EXISTING HACKENSACK RIVER BRIDGE REMOVAL

TRACK 2

TRACK 1

4518+00

4518+29

4519+00

4520+00

4521+00

4522+00

4523+00

4524+00

4525+00

4526+00

4527+00

TRACK 3

TRACK 4

LIMIT OF 100-YEAR FLOOD(EL.9)

WETLAND LIMIT

EXISTING ACCESS ROAD

Riverbend Wetland Preserve Impacts		
	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	0.128	0.012
Wetland	1.335	0.250
Open Water	0.000	0.000
Bridge Foundation Subtidal Shallows	0.045	0.024
Bridge Foundation Wetlands	0.390	0.058
Riparian	0.358	0.127
Hackensack Bridge Removal	0.000	0.000

EXISTING ACCESS ROAD

SCALE IN FEET

30' 20' 10' 0 30' 60'

RIVERBEND WETLAND PRESERVE

No.	DATE:	REVISIONS	DESIGN	CHKD	APPRVD

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RICHARD D. SIRABIAN
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NJ LIC. No. 24GE03481000

PORTAL BRIDGE
CAPACITY ENHANCEMENT

ENVIRONMENTAL IMPACTS
SHEET 15
LAUREL HILL PARK MARSH
&
RIVERBEND WETLAND PRESERVE

Amtrak FILE No: -
Amtrak Work Elem. No: -
ISSUE: 100% PE
DATE: JANUARY 2020

CONTRACT No.
DWG No. ENVCVL-15
SHEET No. 18 OF 23

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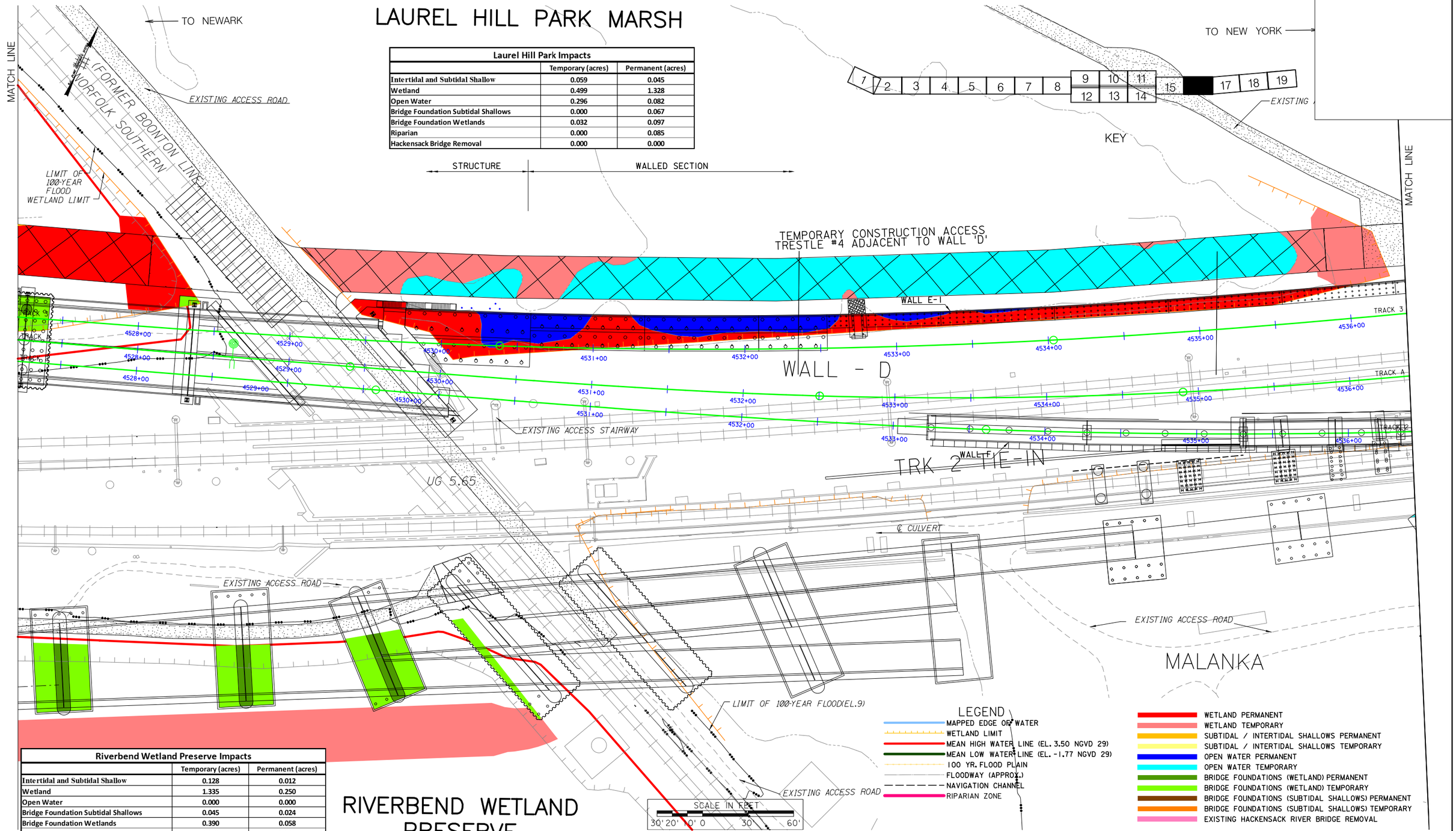
LAUREL HILL PARK MARSH

Laurel Hill Park Impacts		
	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	0.059	0.045
Wetland	0.499	1.328
Open Water	0.296	0.082
Bridge Foundation Subtidal Shallows	0.000	0.067
Bridge Foundation Wetlands	0.032	0.097
Riparian	0.000	0.085
Hackensack Bridge Removal	0.000	0.000

STRUCTURE — WALLED SECTION



Riverbend Wetland Preserve Impacts		
	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	0.128	0.012
Wetland	1.335	0.250
Open Water	0.000	0.000
Bridge Foundation Subtidal Shallows	0.045	0.024
Bridge Foundation Wetlands	0.390	0.058
Riparian	0.358	0.127
Hackensack Bridge Removal	0.000	0.000

RIVERBEND WETLAND PRESERVE

LEGEND

- MAPPED EDGE OF WATER
- WETLAND LIMIT
- MEAN HIGH WATER LINE (EL. 3.50 NGVD 29)
- MEAN LOW WATER LINE (EL. -1.77 NGVD 29)
- 100 YR. FLOOD PLAIN
- FLOODWAY (APPROX.)
- NAVIGATION CHANNEL
- RIPARIAN ZONE
- WETLAND PERMANENT
- WETLAND TEMPORARY
- SUBTIDAL / INTERTIDAL SHALLOWS PERMANENT
- SUBTIDAL / INTERTIDAL SHALLOWS TEMPORARY
- OPEN WATER PERMANENT
- OPEN WATER TEMPORARY
- BRIDGE FOUNDATIONS (WETLAND) PERMANENT
- BRIDGE FOUNDATIONS (WETLAND) TEMPORARY
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) PERMANENT
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) TEMPORARY
- EXISTING HACKENSACK RIVER BRIDGE REMOVAL

No.	DATE:	REVISIONS	DESIGN	CHKD	APPRVD

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Portal Partners — NJTRANSIT — AMTRAK — Gateway to Success

JACOBS™
299 Madison Ave, Morristown, NJ 07962

DESIGNED: RDS
DRAWN: BMW
CHECKED: FG
APPROVED: RDS

Jacobs Engineering Group, Inc.
Certificate No. 24GA27990200

RICHARD D. SIRABIAN
PROFESSIONAL ENGINEER
NJ LIC. No. 24GE03481000

PORTAL BRIDGE
CAPACITY ENHANCEMENT

ENVIRONMENTAL IMPACTS
SHEET 16A
LAUREL HILL PARK MARSH
&
RIVERBEND WETLAND PRESERVE

Amtrak FILE No: -
Amtrak Work Elem. No: -
ISSUE: 100% PE
DATE: JANUARY 2020

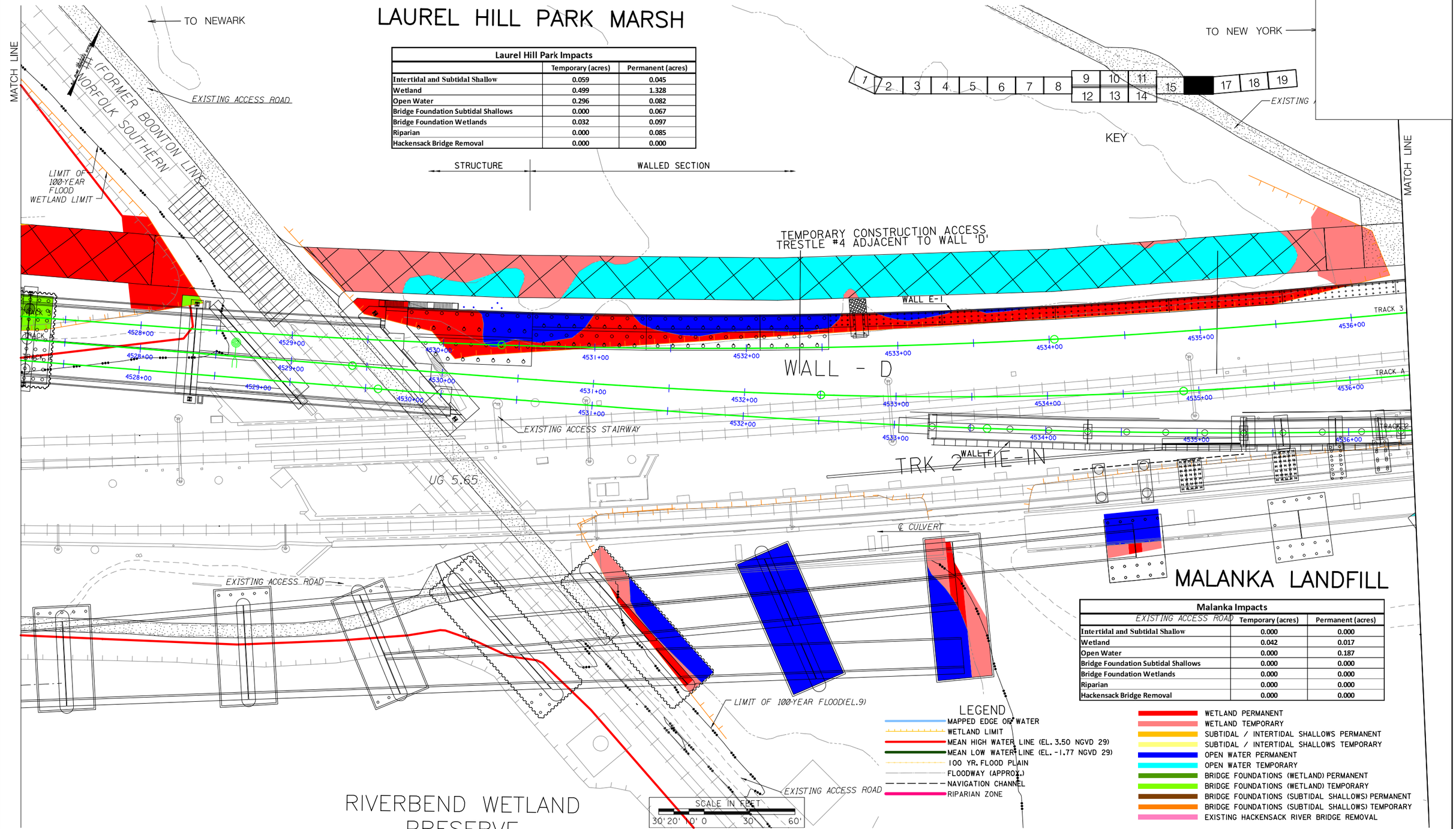
CONTRACT No.
DWG No. ENVCVL-16A
SHEET No. 19 OF 23

FILENAME: c:\pwworking\gfow01\peter.noage@jacobs.com\d1049272\ENVCVL-16A.dgn
DATE: 1/17/2020 10:00:07 AM
USER: pnoage

LAUREL HILL PARK MARSH

Laurel Hill Park Impacts		
	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	0.059	0.045
Wetland	0.499	1.328
Open Water	0.296	0.082
Bridge Foundation Subtidal Shallows	0.000	0.067
Bridge Foundation Wetlands	0.032	0.097
Riparian	0.000	0.085
Hackensack Bridge Removal	0.000	0.000

STRUCTURE — WALLED SECTION



RIVERBEND WETLAND PRESERVE

MALANKA LANDFILL

Malanka Impacts		
EXISTING ACCESS ROAD	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	0.000	0.000
Wetland	0.042	0.017
Open Water	0.000	0.187
Bridge Foundation Subtidal Shallows	0.000	0.000
Bridge Foundation Wetlands	0.000	0.000
Riparian	0.000	0.000
Hackensack Bridge Removal	0.000	0.000

LEGEND

- MAPPED EDGE OF WATER
- WETLAND LIMIT
- MEAN HIGH WATER LINE (EL. 3.50 NGVD 29)
- MEAN LOW WATER LINE (EL. -1.77 NGVD 29)
- 100 YR. FLOOD PLAIN
- FLOODWAY (APPROX.)
- NAVIGATION CHANNEL
- RIPARIAN ZONE
- WETLAND PERMANENT
- WETLAND TEMPORARY
- SUBTIDAL / INTERTIDAL SHALLOWS PERMANENT
- SUBTIDAL / INTERTIDAL SHALLOWS TEMPORARY
- OPEN WATER PERMANENT
- OPEN WATER TEMPORARY
- BRIDGE FOUNDATIONS (WETLAND) PERMANENT
- BRIDGE FOUNDATIONS (WETLAND) TEMPORARY
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) PERMANENT
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) TEMPORARY
- EXISTING HACKENSACK RIVER BRIDGE REMOVAL

No.	DATE:	REVISIONS	DESIGN	CHKD	APPRVD

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APPROVED: RDS

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Certificate No. 24GA27990200

RICHARD D. SIRABIAN
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NJ LIC. No. 24GE03481000

PORTAL BRIDGE
CAPACITY ENHANCEMENT

ENVIRONMENTAL IMPACTS
SHEET 16B
LAUREL HILL PARK MARSH
&
MALANKA LANDFILL

Amtrak FILE No: -
Amtrak Work Elem. No: -
ISSUE: 100% PE
DATE: JANUARY 2020

CONTRACT No.
DWG No. ENVCVL-16B
SHEET No. 20 OF 23

FILENAME: c:\pwworking\gfow01\peter.noage@jacobs.com\d1049272\ENVCVL-16B.dgn
DATE: 1/17/2020 10:01:16 AM
USER: pnoage

LAUREL HILL PARK MARSH

Laurel Hill Park Impacts		
	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	0.059	0.045
Wetland	0.499	1.328
Open Water	0.296	0.082
Bridge Foundation Subtidal Shallows	0.000	0.067
Bridge Foundation Wetlands	0.032	0.097
Riparian	0.000	0.085
Hackensack Bridge Removal	0.000	0.000

MATCH LINE

TO NEWARK

TO NI

MATCH LINE

TEMPORARY CONSTRUCTION ACCESS ROAD

EXISTING ACCESS ROAD

EXISTING ACCESS ROAD

WETLAND LIMIT

TRACK 3

TRACK A

TRACK 2

4537+00 4538+00 4539+00 4540+00 4541+00 4542+00 4543+00 4544+00 4545+00

EXISTING ACCESS ROAD

MALANKA LANDFILL

Malanka Impacts		
	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	0.000	0.000
Wetland	0.042	0.017
Open Water	0.000	0.187
Bridge Foundation Subtidal Shallows	0.000	0.000
Bridge Foundation Wetlands	0.000	0.000
Riparian	0.000	0.000
Hackensack Bridge Removal	0.000	0.000

LEGEND

- MAPPED EDGE OF WATER
- WETLAND LIMIT
- MEAN HIGH WATER LINE (EL. 3.50 NGVD 29)
- MEAN LOW WATER LINE (EL. -1.77 NGVD 29)
- 100 YR. FLOOD PLAIN
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- NAVIGATION CHANNEL
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- WETLAND TEMPORARY
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- SUBTIDAL / INTERTIDAL SHALLOWS TEMPORARY
- OPEN WATER PERMANENT
- OPEN WATER TEMPORARY
- BRIDGE FOUNDATIONS (WETLAND) PERMANENT
- BRIDGE FOUNDATIONS (WETLAND) TEMPORARY
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) PERMANENT
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) TEMPORARY
- EXISTING HACKENSACK RIVER BRIDGE REMOVAL

SCALE IN FEET
30' 20' 10' 0 30' 60'

KEY: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

No.	DATE:	REVISIONS	DESIGN	CHKD	APPRVD

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CHECKED: FG
APPROVED: RDS

Jacobs Engineering Group, Inc.
Certificate No. 24GA27990200

RICHARD D. SIRABIAN
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NJ LIC. No. 24GE03481000

PORTAL BRIDGE
CAPACITY ENHANCEMENT

ENVIRONMENTAL IMPACTS
SHEET 17
LAUREL HILL PARK MARSH
&
MALANKA LANDFILL

Amtrak FILE No: -
Amtrak Work Elem. No: -
ISSUE: 100% PE
DATE: JANUARY 2020

CONTRACT No.
DWG No. CVL-0017
SHEET No. 21 OF 23

FILENAME: c:\pwworking\gfpw01\peter.noogo@jacobs.com\d1049272\ENVCVL-17.dgn
DATE: 1/17/2020 10:01:59 AM
USER: pnoogo

MATCH LINE

TO NEWARK

TO

MATCH LINE

LAUREL HILL PARK MARSH

Laurel Hill Park Impacts		
	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	0.059	0.045
Wetland	0.499	1.328
Open Water	0.296	0.082
Bridge Foundation Subtidal Shallows	0.000	0.067
Bridge Foundation Wetlands	0.032	0.097
Riparian	0.000	0.085
Hackensack Bridge Removal	0.000	0.000

EMBANKMENT

PROJECT LIMIT

WETLAND LIMIT

WALL E-2

CRIB WALL

TRACK 3

TRACK A

TRACK 2

4546+00 4547+00 4548+00 4549+00 4550+00 4551+00 4552+00 4553+00

℄ CULVERT

A 4554+00

MALANKA LANDFILL

Malanka Impacts		
	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	0.000	0.000
Wetland	0.042	0.017
Open Water	0.000	0.187
Bridge Foundation Subtidal Shallows	0.000	0.000
Bridge Foundation Wetlands	0.000	0.000
Riparian	0.000	0.000
Hackensack Bridge Removal	0.000	0.000

LEGEND

- MAPPED EDGE OF WATER
- WETLAND LIMIT
- MEAN HIGH WATER LINE (EL. 3.50 NGVD 29)
- MEAN LOW WATER LINE (EL. -1.77 NGVD 29)
- 100 YR. FLOOD PLAIN
- FLOODWAY (APPROX.)
- NAVIGATION CHANNEL
- RIPARIAN ZONE

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- WETLAND TEMPORARY
- SUBTIDAL / INTERTIDAL SHALLOWS PERMANENT
- SUBTIDAL / INTERTIDAL SHALLOWS TEMPORARY
- OPEN WATER PERMANENT
- OPEN WATER TEMPORARY
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- BRIDGE FOUNDATIONS (WETLAND) TEMPORARY
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) PERMANENT
- BRIDGE FOUNDATIONS (SUBTIDAL SHALLOWS) TEMPORARY
- EXISTING HACKENSACK RIVER BRIDGE REMOVAL

KEY: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 19

SCALE IN FEET
30' 20' 10' 0 30' 60'

No.	DATE:	REVISIONS	DESIGN	CHKD	APPRVD

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CHECKED: FG
APPROVED: RDS

Jacobs Engineering Group, Inc.
Certificate No. 24GA27990200

RICHARD D. SIRABIAN
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NJ LIC. No. 24GE03481000

PORTAL BRIDGE
CAPACITY ENHANCEMENT

ENVIRONMENTAL IMPACTS
SHEET 18
LAUREL HILL PARK MARSH
&
MALANKA LANDFILL

Amtrak FILE No: -
Amtrak Work Elem. No: -
ISSUE: 100% PE
DATE: JANUARY 2020

CONTRACT No.
DWG No. ENVCVL-18
SHEET No. 22 OF 23

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DATE: 1/17/2020 10:02:41 AM
USER: phoog

MATCH LINE

TO NEWARK

Laurel Hill Park Impacts		
	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	0.059	0.045
Wetland	0.499	1.328
Open Water	0.296	0.082
Bridge Foundation Subtidal Shallows	0.000	0.067
Bridge Foundation Wetlands	0.032	0.097
Riparian	0.000	0.085
Hackensack Bridge Removal	0.000	0.000

LAUREL HILL PARK MARSH

MALANKA LANDFILL

Malanka Impacts		
	Temporary (acres)	Permanent (acres)
Intertidal and Subtidal Shallow	0.000	0.000
Wetland	0.042	0.017
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Bridge Foundation Subtidal Shallows	0.000	0.000
Bridge Foundation Wetlands	0.000	0.000
Riparian	0.000	0.000
Hackensack Bridge Removal	0.000	0.000

LIMIT OF 100-YEAR FLOOD(EL.9)

SCALE IN FEET
30' 20' 10' 0 30' 60'

KEY

No.	DATE:	REVISIONS	DESIGN	CHKD	APPRVD

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AMTRAK

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APPROVED: RDS

Jacobs Engineering Group, Inc.
Certificate No. 24GA27990200

RICHARD D. SIRABIAN
PROFESSIONAL ENGINEER
NJ LIC. No. 24GE03481000

PORTAL BRIDGE
CAPACITY ENHANCEMENT

ENVIRONMENTAL IMPACTS
SHEET 19
LAUREL HILL PARK MARSH
&
MALANKA LANDFILL

Amtrak FILE No: -
Amtrak Work Elem. No: -
ISSUE: 100% PE
DATE: JANUARY 2020

CONTRACT No.
DWG No. ENVCVL-19
SHEET No. 23 OF 23

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